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CLAIMS

1.   A method of storing a received digital signal which has been encrypted by an encryption key (CW) and transmitted in encrypted form, comprising the steps of:

decrypting the signal using a decryption key (CW) corresponding to the encryption key;

processing the decrypted signal;

re-encrypting the processed signal using the encryption key; and

storing the re-encrypted signal.

2.   A method according to claim 1, wherein the step of processing the decrypted signal includes manipulating it to improve storage and/or playback operation.

3.   A method according to claim 1 or 2, wherein the decryption key (CW) is the same as the encryption key (CW).

4.   A method according to any one of the preceding claims, wherein the encryption key is one of a plurality of keys forming a key stream.

5.   A method according to claim 4, further comprising delaying the key stream after decrypting the signal and before re-encrypting the processed signal.

6.   A method according to claim 5, including delaying the key stream in dependence on the processing being carried out on the decrypted signal.

7.   A method according to claim 5 or 6, wherein the digital signal comprises a stream of transport packets, the method including synchronising the key stream with the transport packet stream.

8.   A method according to any one of the preceding claims, wherein the step of processing the decrypted signal comprises performing the operations of Packet Identification Number (PID) remapping, remultiplexing or
5 transcoding.

9.   A digital signal storage device for storing a digital signal which has been encrypted using an encryption key (CW) and transmitted in encrypted form, the device comprising:
10   decryption means (13) for decrypting the signal using a decryption key corresponding to the encryption key;
         means (17) for processing the decrypted signal;
         encryption means (18) for re-encrypting the processed signal using the encryption key; and
15   means (19) for storing the re-encrypted signal.

10.   A storage device according to claim 9, wherein the processing means (17) comprises means for manipulating the decrypted signal to improve storage and/or playback operation.
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11.   A storage device according to claim 10, wherein the processing means comprises means for performing the operations of Packet Identification Number (PID) remapping, remultiplexing and/or transcoding.

25   12.   A storage device according to any one of claims 9 to 11, wherein the decryption key (CW) is the same as the encryption key (CW).

13.   A storage device according to any one of claims 9 to 12, wherein the encryption key is one of a plurality of keys forming a key stream.
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14.   A storage device according to claim 13, further including delay means (20) for delaying the key stream prior to re-encrypting the decrypted signal.